



Oracle

1Z0-851 Exam

Java Standard Edition 6 Programmer Certified Professional Exam

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Question: 1

Given a pre-generics implementation of a method:

```
11. public static int sum(List list) {  
12.     int sum = 0;  
13.     for ( Iterator iter = list.iterator(); iter.hasNext(); ) {  
14.         int i = ((Integer)iter.next()).intValue();  
15.         sum += i;  
16.     }  
17.     return sum;  
18. }
```

What three changes allow the class to be used with generics and avoid an unchecked warning?
(Choose three.)

- A. Remove line 14.
- B. Replace line 14 with "int i = iter.next();".
- C. Replace line 13 with "for (int i : intList) {}".
- D. Replace line 13 with "for (Iterator iter : intList) {}".
- E. Replace the method declaration with "sum(List<int> intList)".
- F. Replace the method declaration with "sum(List<Integer> intList)".

Answer: A,C,F

Question: 2

A programmer has an algorithm that requires a `java.util.List` that provides an efficient implementation of `add(0, object)`, but does NOT need to support quick random access. What supports these requirements?

- A. `java.util.Queue`
- B. `java.util.ArrayList`
- C. `java.util.LinkedList`
- D. `java.util.LinearList`

Answer: D

Question: 3

Given:

```
11. // insert code here  
12. private N min, max;  
13. public N getMin() { return min; }  
14. public N getMax() { return max; }  
15. public void add(N added) {  
16.     if (min == null || added.doubleValue() < min.doubleValue())
```

```

17. min = added;
18. if (max == null || added.doubleValue() > max.doubleValue())
19. max = added;
20. }
21. }

```

Which two, inserted at line 11, will allow the code to compile? (Choose two.)

- A. public class MinMax<?> {
- B. public class MinMax<? extends Number> {
- C. public class MinMax<N extends Object> {
- D. public class MinMax<N extends Number> {
- E. public class MinMax<? extends Object> {
- F. public class MinMax<N extends Integer> {

Answer: D,F

Question: 4

Given:

```

12. import java.util.*;
13. public class Explorer2 {
14. public static void main(String[] args) {
15. TreeSet<Integer> s = new TreeSet<Integer>();
16. TreeSet<Integer> subs = new TreeSet<Integer>();
17. for(int i = 606; i < 613; i++)
18. if(i%2 == 0) s.add(i);
19. subs = (TreeSet)s.subSet(608, true, 611, true);
20. s.add(629);
21. System.out.println(s + " " + subs);
22. }
23. }

```

What is the result?

- A. Compilation fails.
- B. An exception is thrown at runtime.
- C. [608, 610, 612, 629] [608, 610]
- D. [608, 610, 612, 629] [608, 610, 629]
- E. [606, 608, 610, 612, 629] [608, 610]
- F. [606, 608, 610, 612, 629] [608, 610, 629]

Answer: E

Question: 5

Given:

```

1. public class Score implements Comparable<Score> {
2. private int wins, losses;

```

```
3. public Score(int w, int l) { wins = w; losses = l; }
4. public int getWins() { return wins; }
5. public int getLosses() { return losses; }
6. public String toString() {
7.     return "<" + wins + "," + losses + ">";
8. }
9. // insert code here
10. }
```

Which method will complete this class?

- A. public int compareTo(Object o){/*more code here*/}
- B. public int compareTo(Score other){/*more code here*/}
- C. public int compare(Score s1,Score s2){/*more code here*/}
- D. public int compare(Object o1, Object o2){/*more code here*/}

Answer: B

Question: 6

Given:

```
11. public class Person {
12.     private name;
13.     public Person(String name) {
14.         this.name = name;
15.     }
16.     public int hashCode() {
17.         return 420;
18.     }
19. }
```

Which statement is true?

- A. The time to find the value from HashMap with a Person key depends on the size of the map.
- B. Deleting a Person key from a HashMap will delete all map entries for all keys of type Person.
- C. Inserting a second Person object into a HashSet will cause the first Person object to be removed as a duplicate.
- D. The time to determine whether a Person object is contained in a HashSet is constant and does NOT depend on the size of the map.

Answer: A

Question: 7

Given:

```
5. import java
a.util.*;
6. public class SortOf {
7.     public static void main(String[] args) {
```

```
8. ArrayList<Integer> a = new ArrayList<Integer>();  
9. a.add(1); a.add(5); a.add(3);  
11. Collections.sort(a);  
12. a.add(2);  
13. Collections.reverse(a);  
14. System.out.println(a);  
15. }  
16. }
```

What is the result?

- A. [1, 2, 3, 5]
- B. [2, 1, 3, 5]
- C. [2, 5, 3, 1]
- D. [5, 3, 2, 1]
- E. [1, 3, 5, 2]
- F. Compilation fails.
- G. An exception is thrown at runtime.

Answer: C

Question: 8

Given

```
11. public interface Status {  
12. /* insert code here */ int MY_VALUE = 10;  
13. } Which three are valid on line  
12?  
(Choose three.)
```

- A. final
- B. static
- C. native
- D. public
- E. private
- F. abstract
- G. protected

Answer: A,B,D

Question: 9

Given:

```
5. class Atom {  
6. Atom() { System.out.print("atom "); }  
7. }  
8. class Rock extends Atom {  
9. Rock(String type) { System.out.print(type); }  
10. }
```

```
11. public class Mountain extends Rock {  
12. Mountain() {  
13. super("granite ");  
14. new Rock("granite ");  
15. }  
16. public static void main(String[] a) { new Mountain(); }  
17. }
```

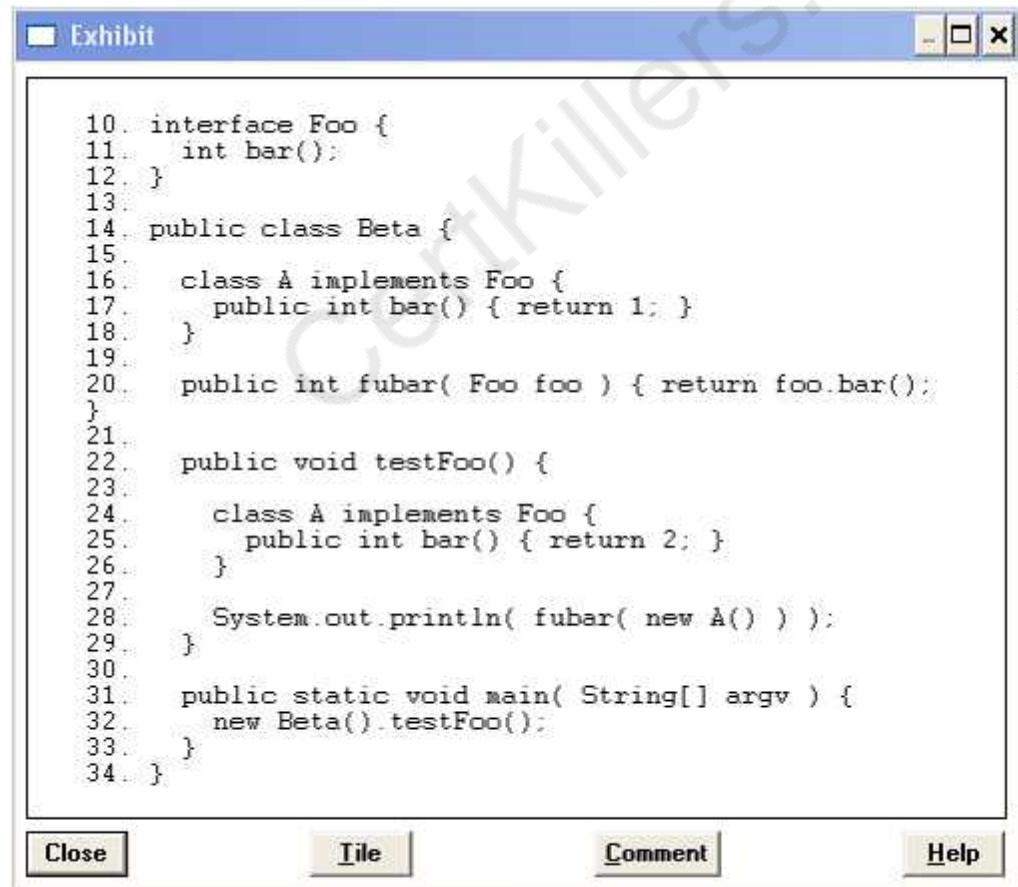
What is the result?

- A. Compilation fails.
- B. atom granite
- C. granite granite
- D. atom granite granite
- E. An exception is thrown at runtime.
- F. atom granite atom granite

Answer: F

Question: 10

Click the Exhibit button.



Which three statements are true? (Choose three.)

- A. Compilation fails.
- B. The code compiles and the output is 2.
- C. If lines 16, 17 and 18 were removed, compilation would fail.
- D. If lines 24, 25 and 26 were removed, compilation would fail.
- E. If lines 16, 17 and 18 were removed, the code would compile and the output would be 2.
- F. If lines 24, 25 and 26 were removed, the code would compile and the output would be 1.

Answer: B,E,F

Question: 11

Given:

```
10. class Line {  
11.     public class Point { public int x,y; }  
12.     public Point getPoint() { return new Point(); }  
13. }  
14. class Triangle {  
15.     public Triangle() {  
16.         // insert code here  
17.     }  
18. }
```

Which code, inserted at line 16, correctly retrieves a local instance of a Point object?

- A. Point p = Line.getPoint();
- B. Line.Point p = Line.getPoint();
- C. Point p = (new Line()).getPoint();
- D. Line.Point p = (new Line()).getPoint();

Answer: D

Question: 12

Given:

```
11. class Alpha {  
12.     public void foo() { System.out.print("Afoo "); }  
13. }  
14. public class Beta extends Alpha {  
15.     public void foo() { System.out.print("Bfoo "); }  
16.     public static void main(String[] args) {  
17.         Alpha a = new Beta();  
18.         Beta b = (Beta)a;  
19.         a.foo();  
20.         b.foo();  
21.     }  
22. }
```

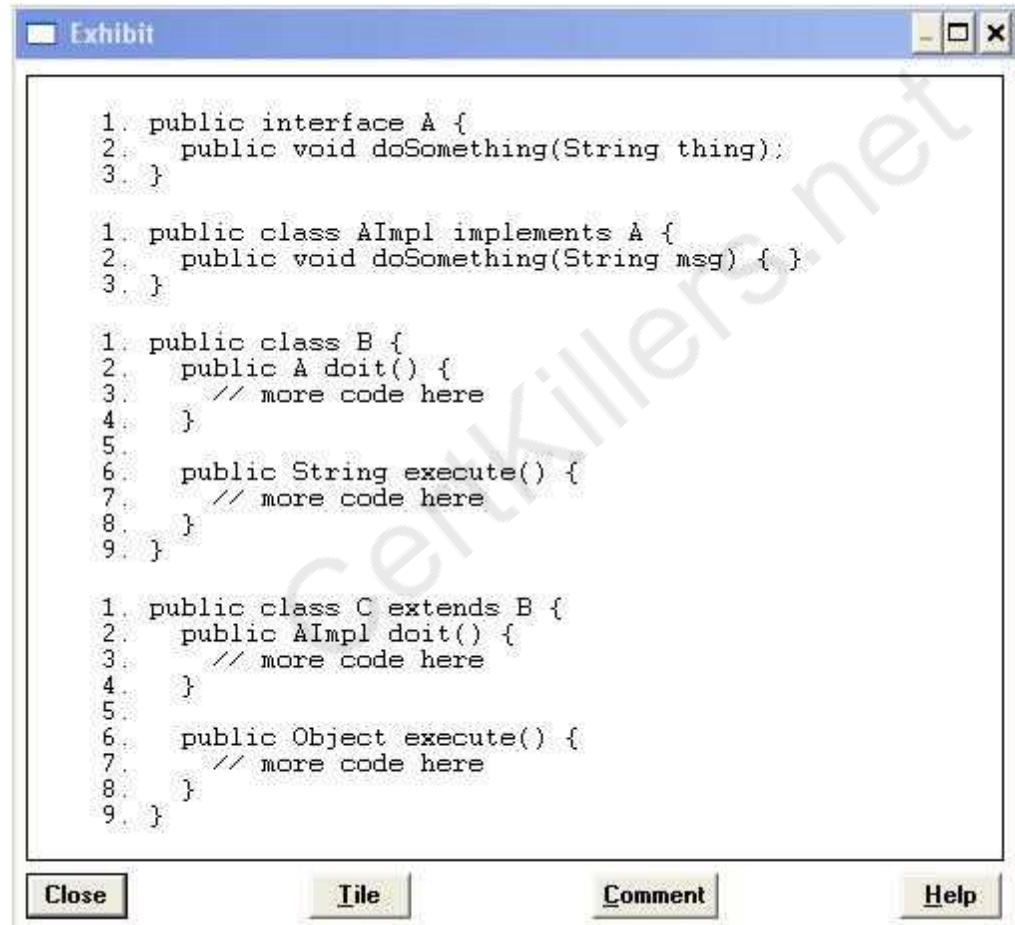
What is the result?

- A. Afoo Afoo
- B. Afoo Bfoo
- C. Bfoo Afoo
- D. Bfoo Bfoo
- E. Compilation fails.
- F. An exception is thrown at runtime.

Answer: D

Question: 13

Click the Exhibit button.



Which statement is true about the classes and interfaces in the exhibit?

- A. Compilation will succeed for all classes and interfaces.
- B. Compilation of class C will fail because of an error in line 2.
- C. Compilation of class C will fail because of an error in line 6.
- D. Compilation of class Almpl will fail because of an error in line 2.

Answer: C

Question: 14

Which two code fragments correctly create and initialize a static array of int elements? (Choose two.)

- A. static final int[] a = { 100,200 };
- B. static final int[] a;
static { a=new int[2]; a[0]=100; a[1]=200; }
- C. static final int[] a = new int[2]{ 100,200 };
- D. static final int[] a;
static void init() { a = new int[3]; a[0]=100; a[1]=200; }

Answer: A,B

Question: 15

Given:

- 10. interface Foo { int bar(); }
- 11. public class Sprite {
- 12. public int fubar(Foo foo) { return foo.bar(); }
- 13. public void testFoo() {
- 14. fubar(
- 15. // insert code here
- 16.);
- 17. }
- 18. }

Which code, inserted at line 15, allows the class Sprite to compile?

- A. Foo { public int bar() { return 1; } }
- B. new Foo { public int bar() { return 1; } }
- C. new Foo() { public int bar() { return 1; } }
- D. new class Foo { public int bar() { return 1; } }

Answer: C

Question: 16

Given:

- 1. class Alligator {
- 2. public static void main(String[] args) {
- 3. int []x[] = {{1,2}, {3,4,5}, {6,7,8,9}};
- 4. int [][]y = x;
- 5. System.out.println(y[2][1]);
- 6. }
- 7. }

What is the result?

- A. 2
- B. 3
- C. 4
- D. 6
- E. 7
- F. Compilation fails.

Answer: E

Question: 17

Given:

22. `StringBuilder sb1 = new StringBuilder("123");`

23. `String s1 = "123";`

24. // insert code here

25. `System.out.println(sb1 + " " + s1);`

Which code fragment, inserted at line 24, outputs "123abc 123abc"?

- A. `sb1.append("abc"); s1.append("abc");`
- B. `sb1.append("abc"); s1.concat("abc");`
- C. `sb1.concat("abc"); s1.append("abc");`
- D. `sb1.concat("abc"); s1.concat("abc");`
- E. `sb1.append("abc"); s1 = s1.concat("abc");`
- F. `sb1.concat("abc"); s1 = s1.concat("abc");`
- G. `sb1.append("abc"); s1 = s1 + s1.concat("abc");`
- H. `sb1.concat("abc"); s1 = s1 + s1.concat("abc");`

Answer: E

Question: 18

Given that the current directory is empty, and that the user has read and write permissions, and the following:

```
11. import java.io.*;  
12. public class DOS {  
13.     public static void main(String[] args) {  
14.         File dir = new File("dir");  
15.         dir.mkdir();  
16.         File f1 = new File(dir, "f1.txt");  
17.         try {  
18.             f1.createNewFile();  
19.         } catch (IOException e) { ; }  
20.         File newDir = new File("newDir");  
21.         dir.renameTo(newDir);  
22.     }  
}
```

23. }

Which statement is true?

- A. Compilation fails.
- B. The file system has a new empty directory named dir.
- C. The file system has a new empty directory named newDir.
- D. The file system has a directory named dir, containing a file f1.txt.
- E. The file system has a directory named newDir, containing a file f1.txt.

Answer: E

Question: 19

Given:

```
11. class Converter {  
12.     public static void main(String[] args) {  
13.         Integer i = args[0];  
14.         int j = 12;  
15.         System.out.println("It is " + (j==i) + " that j==i.");  
16.     }  
17. }
```

What is the result when the programmer attempts to compile the code and run it with the command
java Converter 12?

- A. It is true that j==i.
- B. It is false that j==i.
- C. An exception is thrown at runtime.
- D. Compilation fails because of an error in line 13.

Answer: D

Question: 20

Given:

```
11. String test = "Test A. Test B. Test C.;"  
12. // insert code here  
13. String[] result = test.split(regex);
```

Which regular expression, inserted at line 12, correctly splits test into "Test A", "Test B", and "Test C"?

- A. String regex = "";
- B. String regex = " ";
- C. String regex = ".*";
- D. String regex = "\\s";
- E. String regex = "\\.\.\s*";
- F. String regex = "\\w[\.]+";

Answer: E

Question: 21

Given:

```
5. import java.util.Date;  
6. import java.text.DateFormat;  
21. DateFormat df;  
22. Date date = new Date();  
23. // insert code here  
24. String s = df.format(date);
```

Which code fragment, inserted at line 23, allows the code to compile?

- A. df = new DateFormat();
- B. df = Date.getFormat();
- C. df = date.getFormat();
- D. df = DateFormat.getFormat();
- E. df = DateFormat.getInstance();

Answer: E

Question: 22

Given a class Repetition:

```
1. package utils;  
2.  
3. public class Repetition {  
4. public static String twice(String s) { return s + s; }  
5. } and given another class Demo: 1. // insert code here  
2.  
3. public class Demo {  
4. public static void main(String[] args) {  
5. System.out.println(twice("pizza"));  
6. }  
7. }
```

Which code should be inserted at line 1 of Demo.java to compile and run Demo to print "pizzapizza"?

- A. import utils.*;
- B. static import utils.*;
- C. import utils.Repetition.*;
- D. static import utils.Repetition.*;
- E. import utils.Repetition.twice();
- F. import static utils.Repetition.twice;
- G. static import utils.Repetition.twice;

Answer: F

Question: 23

A UNIX user named Bob wants to replace his chess program with a new one, but he is not sure where the old one is installed. Bob is currently able to run a Java chess program starting from his home directory `/home/bob` using the command: `java -classpath /test:/home/bob/downloads/*.jar games.Chess` Bob's CLASSPATH is set (at login time) to:
`/usr/lib:/home/bob/classes:/opt/java/lib:/opt/java/lib/*.jar` What is a possible location for the `Chess.class` file?

- A. `/test/Chess.class`
- B. `/home/bob/Chess.class`
- C. `/test/games/Chess.class`
- D. `/usr/lib/games/Chess.class`
- E. `/home/bob/games/Chess.class`
- F. inside jarfile `/opt/java/lib/Games.jar` (with a correct manifest)
- G. inside jarfile `/home/bob/downloads/Games.jar` (with a correct manifest)

Answer: C

Question: 24

Given:

```
3. interface Animal { void makeNoise(); }
4. class Horse implements Animal {
5.     Long weight = 1200L;
6.     public void makeNoise() { System.out.println("whinny"); }
7. }
8. public class Icelandic extends Horse {
9.     public void makeNoise() { System.out.println("vinny"); }
10.    public static void main(String[] args) {
11.        Icelandic i1 = new Icelandic();
12.        Icelandic i2 = new Icelandic();
13.        Icelandic i3 = new Icelandic();
14.        i3 = i1; i1 = i2; i2 = null; i3 = i1;
15.    }
16. }
```

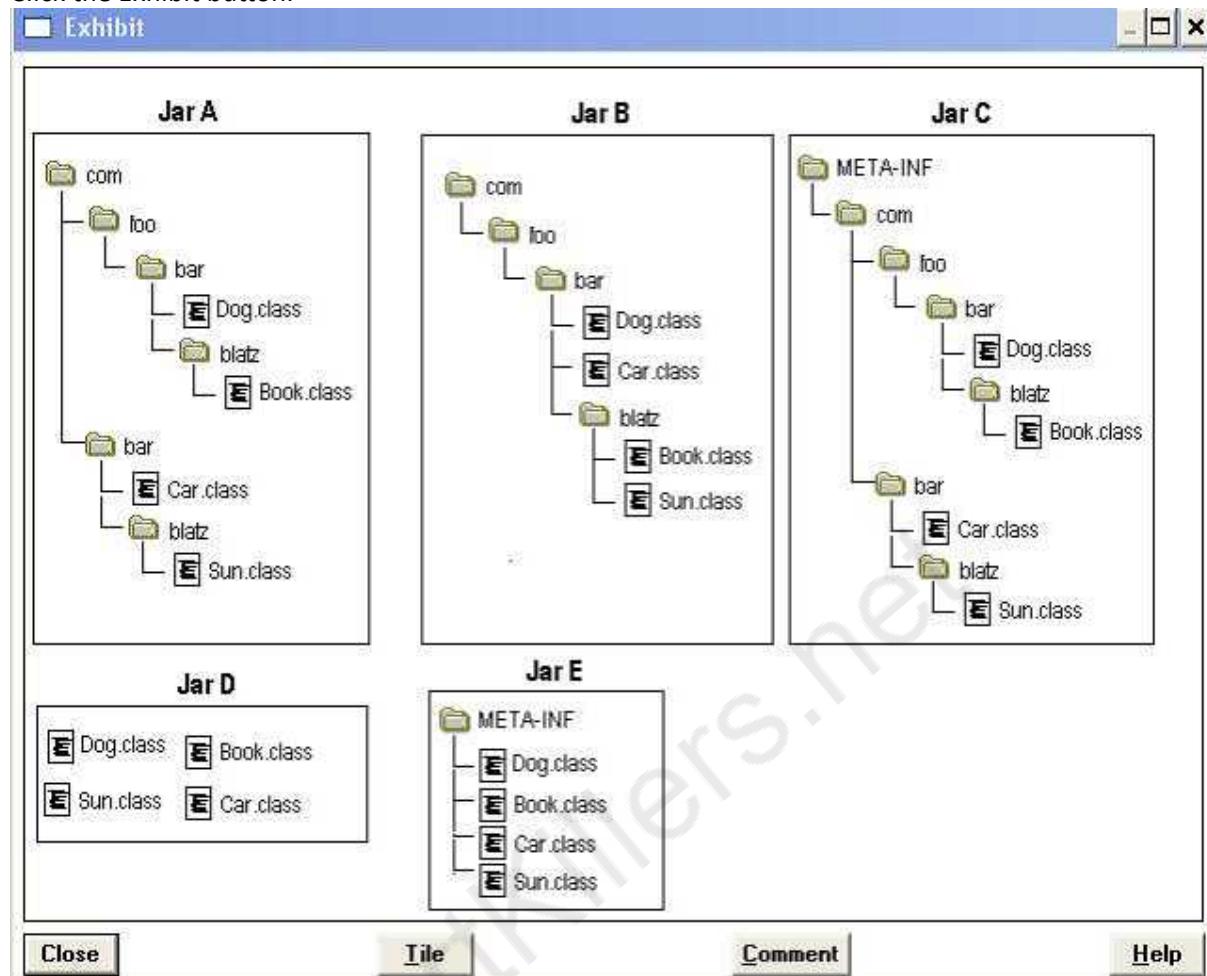
When line 15 is reached, how many objects are eligible for the garbage collector?

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4
- F. 6

Answer: E

Question: 25

Click the Exhibit button.



Given the fully-qualified class names: com.foo.bar.Dog

com.foo.bar.blatz.Book com.bar.Car com.bar.blatz.Sun Which graph represents the correct directory structure for a JAR file from which those classes can be used by the compiler and JVM?

- A. Jar A
- B. Jar B
- C. Jar C
- D. Jar D
- E. Jar E

Answer: A

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